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ABSTRACT

The PWD and Senior Citizen Information System was developed and implemented for several purpose such as easy and fast inquiry of information in the MSWD office. This study, covered the changes from manual to automated in which the user is able to manipulate the new system. The purpose of this study is to develop a computerized information system that will upgrade and create computerized registration process, and generate demographic profile for PWD and Senior Citizen in Calauan.

The study used the Modified Waterfall Methodology model that followed a web-based structure starting from requirement analysis, design phase, implementation, testing and maintenance. Each phase guided the researchers in the development of the study and helped them organized the work flow of each task.

The result indicated that the website was efficient in all aspects mentioned in the FURPS model. It is recommended that the system should be maintained by a computer programmer to integrate other information needed. In conclusion, the researchers found out that the system could speed up the working progress and productivity of the office's manual system. It could generate reports and provide easy access to information. It also provided the office for easy searching the master list of all PWD and Senior citizen. The system could reduce the workloads in the office resulting to a better management and working performance.



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Abstract

This study focuses on the development and implementation of a LAN-based Student Management System at the tertiary level of Canossa College San Pablo. The purpose of this study is to address some of the problems faced in the manual management of student records, thus improving the existing process implemented by the school into a computerized one. The researchers' method employed was developmental, and modified waterfall model for the project development cycle. There were (55) respondents who evaluated the system, (10) from the client, (5) IT experts, and (40) Non-ITs. The evaluation tool used was the FURPS Evaluation to classify software quality attributes. Mean formula was utilized for the data analysis. In terms of functionality, the system got a mean of 4.39 interpreted as highly acceptable. The usability got a mean of 4.31 interpreted as highly acceptable. The reliability got a mean of 4.38 interpreted as highly acceptable. The performance was also interpreted highly acceptable with a mean of 4.44. And finally, the supportability was evaluated highly acceptable as well with a mean of 4.43. The general mean for the functionality, usability reliability, performance and supportability was 4.39, this means that the developed student management system is highly acceptable and useful to improve the existing manual process of student management in Canossa College – San Pablo.



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Abstract

The Capellan Institute of Technology San Pablo City Enrollment Management System is a LAN-based system that intends to improve the current student registration process while also ensuring the privacy and security of the records. The proposed system will have a substantial impact on students and the Capellan Institute of Technology staff who would operate the system, such as the registrar, cashier, and director. The implementation of the system will change the usual method process that the school has in terms of gathering relevant data needed for student registration, storing students' submitted credentials, computation of enrollment fees, and generating enrollment forms, payment receipts, and student data reports.

The enrollment management system was evaluated by five (5) IT-Experts, thirty (30) Non-IT Experts and the client using FURPS model of software evaluation. The overall result of the evaluation was 4.45 and interpreted as "very acceptable" which means that the developed system was useful and has met the objectives and functionalities needed by the Capellan Institute of Technology San Pablo.



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ABSTRACT

This study focuses on the development of a LAN-based system at Canossa Colleges San Pablo. The purposes of this study is for Canossa Colleges San Pablo to open up for the new age, new systematic and organize way of managing and handling the data of employees to HR and clinicians, this system will save a lot of time and effort in terms of collecting, tracking and keeping the records of the employees. The Developers method employed was developmental, and Spiral for the project development cycle. There were (55) respondents who evaluated the system, (10) from the client, (5) IT experts, and (30) Non ITs. The evaluation tool used was the FURPS Evaluation to classify software quality attributes. Mean formula was utilized for the data analysis. In terms of functionality, the system got a mean of 4.62 interpreted as highly acceptable. The usability got a mean of 4.58 interpreted as highly acceptable. The reliability got a mean of 4.71 interpreted as highly acceptable. The performance was also interpreted highly acceptable with a mean of 4.53. And lastly, the supportability was evaluated highly acceptable as well with a mean of 4.54. The general evaluation results a total of 4.59 which interpreted highly acceptable. Based from the general evaluation of functionality, usability, reliability, performance and supportability of the system got the overall mean of 4.59 which means that the system was highly acceptable to the (10) ten client (5) five IT expert and thirty (30) non-IT who evaluate the system.



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ABSTRACT

Title : Vet AIM (Appointment, Inventory, Medical Records): Veterinary Online Portal Clinic
Researcher : Hernandez, Krysia Lee A.
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Institution : Polytechnic University of the Philippines
Year : 2023
Adviser : Mrs. Agnes M. Recaña, LPT MSIT

Some veterinary clinics are still using manual operations for daily transactions. The problem that the veterinary clinic faced was time management, scheduling of appointments, and storing data records. Nowadays, the majority of veterinary clinics have adapted to high technology, where computers have become a way of life. The general goal of the study is to create a system that can store and handle client and pet records for easy access and searching. It also aims to manage inventory, schedule appointments, remind clients of their next appointments, to test, evaluate and document the system.

This system project is concerned with the development of Vet AIM (Appointment, Inventory, and Medical Records): Veterinary Online Portal Clinic. The system provides the easiest way for clients to book appointment and it was designed to assist the clinic in keeping track of its records.

Developers of the Vet AIM (Appointment, Inventory, and Medical Records): Veterinary Online Portal Clinic uses a modified waterfall model. This model involves five phases that help the developers complete and meet the objectives of the project. Upon completion and uploading the system, testing and evaluation took place, and the system was evaluated by 65 respondents, which included IT experts, Non-IT and Clients,



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The overall result of the evaluation was 4.70 and interpreted as "highly acceptable" which means that the developed system was useful and met the objectives and functionalities need by the Vet AIM (Appointment, Inventory, Medical Records): Online Portal Clinic using the ISO 25010 evaluation instrument. As a recommendation, a calendar for an easy way of checking the follow-up check-up of the clients.

Keywords: Veterinary Clinic, Daily Transactions, Vet AIM, clients, clinics





Republic of the Philippines
Polytechnic of University of the Philippines
Calauan, Campus
Province of Laguna



ABSTRACT

Title : Optimizing Inventory and Point of Sale Management System using Barcode Scanner for Expiration Detection of Telay's 888 Store

Researcher : Altura, Pinky D.
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Monterey Micaela Kaye M.

Degree : Bachelor of Science in Information Technology

Institution : Polytechnic University of the Philippines, Calauan Campus

Year : 2023

Adviser : Ms. Agnes M. Recaña, LPT, MSIT

Inventory control and maintenance is a critical issue that almost all sectors of the economy face. Inventory is one of the important departments that must be well managed to ensure daily business activities run smoothly.

Through the years, the business experienced a lot of food wastage due to the expired item that was not noticed immediately. In line with this, Telay's 888 Store faces problems in the store's inventory process. The store's existing application does not provide any means of detecting expired dates for food and cannot generate inventory and sales reports. This led the developers to conduct research that will help Telay's 888 Store solve their problem. The general objective of this study is to develop an inventory and point of sale management system using barcode scanners to detect expiration. This aims to help the store manage the inventory to avoid food spoilage and

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have inventory and sales reports .

The developers used the Modified Waterfall Method for the project development. The Modified Waterfall Model ensures that system flaws are corrected early in the development process by allowing developers to go back to a prior step if a fault is discovered at one stage.

There were 65 respondents that evaluated the system, including 30 clients, 5 IT specialists, and 30 non-IT respondents. The ISO/IEC 25010 classification of software quality was the evaluation tool that was used. The final score for the general evaluation is 4.80. The system received an overall mean of 4.80, which indicates that it was rated Outstanding by the thirty (30) clients, five (5) IT experts, and thirty (30) non-IT who evaluated it.

Based on the evaluations, the researcher proved that this research would benefit Telay's 888 Store as this contains a module that manages all the products, manages the users, and makes the purchasing process easier.

A module where the administrator can add the same items with varying expiration dates and construct a dashboard for the most and least purchased products is advised to further improve this system's functionality for the future researchers.



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Polytechnic of University of the Philippines
Calauan, Campus
Province of Laguna



ABSTRACT

Title : Agie's Cake Shop Pre-Order Online System
Researcher : Castillo, Rachel A.
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Institution : Polytechnic University of the Philippines, Calauan Campus
Year : 2023
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A pre-order system is an essential tool for any business. It allows customers to reserve a product or service ahead of time and helps you build expectations for the product's release. It also allows gathering valuable feedback about a product or service before releasing it.

The manual and face-to-face transactions between the seller and customer are time-consuming when it comes to getting customer orders, information, and transactions. Therefore, the developers developed a Pre-Order system to help Agie's Cake Shop in managing orders and other transactions online.

Moreover, the developers used the Scrum Model for the project development. This model encourages teamwork in each iteration called "sprints". It is cost-efficient and it relies on user feedback for improvement.

There were sixty-five (65) respondents who evaluated the system: thirty (30)



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Client; five (5) IT experts; and thirty (30) non-ITs. The evaluation tool used was the ISO/IEC 25010 that classifies software quality and the general evaluation results in a total of 4.82. Based on the general evaluation of functionality suitability, performance efficiency, compatibility, usability, reliability, security, maintainability and portability of the system, the overall mean is 4.82 which means that the system was outstanding to thirty (30) clients, five (5) IT experts and thirty (30) non-IT who evaluated the system.

To further enhance the capabilities of the system, it is recommended to create a module where the customer can track their order or view the product process.

POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

ABSTRACT

Title : LAN-Based Faculty Scheduling System of Polytechnic University of the Philippines Calauan Campus
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Institution : Polytechnic University of the Philippines – Calauan Campus
Year : 2023
Adviser : Prof. Agnes M. Recaña, LPT, MSIT

The **LAN-Based Faculty Scheduling System of Polytechnic University of the Philippines Calauan Campus** intends to improve the current process of creating faculty and student timetables. The general objective is to create a faculty scheduling system to manage and coordinate faculty teaching loads and schedules. The proposed system will have an important role to the faculty, administrative staffs of the institution, campus director and the institution itself as it will change the usual method of arranging the flow of faculty and class schedules. The researcher used the Modified Waterfall Model because it allows the developers to go back to a prior step if a fault is discovered at one stage. Because of this, the chance of changing the system before implementation is reduced.

The LAN-Based Faculty Scheduling System was evaluated and examined by five (5) IT Experts, ten (10) clients and thirty (30) Non-IT Experts using ISO/IEC 25010 model of software evaluation. The evaluators remarked that the system was highly acceptable with a general rating of 4.70 through the evaluation because the system passed the

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system qualification in terms of Functional Suitability, Performance Efficiency, Compatibiltiy, Usability, Reliability, Security, Maintainability and Security.

The following generalization and conclusion are drawn from the evaluation results, and the developers demonstrate that the system will improve the current process of creating faculty and student timetables in the Polytechnic University of the Philippines Calauan Campus. The clients and IT Experts recommended that the system should notify the faculty member user using SMS (Short Message Services) once the schedules are approved or decline.



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ABSTRACT

Title : Saving and Loan Management System (SLMS) for Southville 7 Credit Cooperative, Sto. Tomas Calauan Laguna

Researchers : Alzona, Christian B.

Canicon, Ruther Joseph Gabriel M.

Elizaga, Jonah Angelo M.

Degree : Bachelor of Science in Information Technology

Institution : Polytechnic University of the Philippines Calauan Campus

Year : 2023

Adviser : Agnes M. Recaña, LPT, MSIT

The Saving and Loan Management System (SLMS) for Southville 7 Credit Cooperative, Sto. Tomas, Calauan, Laguna, was a system capable of managing loan and saving transactions. It has an importance that helps to ensure the success and target goals of the credit institution. This study aimed to design and develop a savings and loan management system that will automate the cooperative's entire credit and loan services, providing good quality service to the members, strengthening the credit cooperative to gain more members in the future, and serving as an advertisement as well. The researchers have concluded that the Saving and Loan Management System will significantly help the cooperative manage large amounts of data, strengthen the cooperative's security, print loan information for hardcopy purposes, eliminate calculation errors, and organize the related credit activities. The recommendations were to add three



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features: online registration to nearby barangays, online loan and payment for automated transactions, and adding pictures to post upcoming events. The system was evaluated by thirty (30) clients, five (5) IT experts, and thirty (30) non-IT respondents using the ISO 25010 evaluation instrument. The overall result of the evaluation was 4.89 and interpreted as "Highly Acceptable," which means that the developed system was useful and met the objectives and functionalities needed by the credit cooperative.



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

ABSTRACT

Title : Breakthrough Christian Academy Enrollment and Grading System

Researcher : Latayan, Roy Joseph, M.
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Institution : Polytechnic University of the Philippines, Calauan Campus

Year : 2023

Adviser : Mrs. Agnes M. Recaña, LPT, MSIT

Many organizations, especially schools, are now using computer software to manage some of the school's procedures, such as enrollment and grading systems. The aim or main objective of this study is to design and develop a web-based enrollment and grading system for the BCA to improve the current manual process, thereby providing an easier, faster, and more effective way of enrolling students, paying tuition fees, distributing grades, and monitoring the grades of students. Moreover, the developers apply the modified waterfall model to depict the development of BCA-EGS. It was adopted by the developers to complete and meet the objectives of the project. Furthermore, the system was evaluated, using ISO/IEC 25010 to test its quality, by thirty (30) clients, five (5) IT experts, and thirty (30) non-IT students. The general average of the evaluation was 4.68, which was interpreted as "outstanding." Based on the evaluation results, the developers have come to the conclusion that the BCA-EGS will be a great help to the school in the process of enrollment and grading, which means



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that the developed system was useful and met the objectives and functionalities needed by the Breakthrough Christian Academy. As per the developers' recommendations, create a function that allows the administrator to configure system privileges for users. And the BCA-EGS should have a function that allows teachers to easily input tasks, activities, and assignments in order to effectively manage student performance.

Keywords: Enrollment, Grading, Payment, Online, Evaluation



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

ABSTRACT

Title : Micah's Electronic Shop System
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Degree : Bachelor of Science in Information Technology
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Year : 2023
Adviser : Mrs. Agnes M. Recaña, LPT, MSIT

An Online Shop System is an online platform for online selling businesses. This is a tool that allows customers to purchase products online with ease. Online Shop System gathered valuable ratings and feedback from the users to a product offered. Because of being a common platform nowadays, a variety of choices and features are different in most online shop systems.

Micah's Shop encountered issues in monitoring and checking customers' orders, information, and business sales. The developers developed an Online Shop System entitled "**Micah's Electronic Shop System**"; this is to help the client (Micah's Shop) in managing business transactions online. This project is web-based, which can be accessed online anytime, and is free to use by anyone. The purpose of the development of this

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project is to help Micah's Shop to resolve the issue and concerns encountered due to the current process of the business.

The developers used Agile Methods in the project development. The number of sprint meetings that the developers conducted is three. The three (3) sprint meetings and planning that the developers conducted discuss the project entitled "Micah's Electronic Shop System" which is going to create and plan to make the system much more functional and create a user-friendly system for the administrator, customers, and visitors.

There were Sixty-five (65) respondents who evaluated the system, five (5) IT Experts, thirty (30) non-ITs, and thirty (30) Clients. The evaluation tool used was the ISO/IEC 25010 which classifies the software quality. The general evaluation results in a total gain of 4.77 which is interpreted as "Outstanding". This means that the system had met the requirements and had shown the expected results.

To further enhance the capabilities of the system it is recommended to create a module for Modes of Payment (such as GCash, PayMaya [Maya], Paypal, and Debit/Credit card).

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ABSTRACT

Title : Enrollment System for Capellan Institute of Technology
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Year : 2024
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The Capellan Institute of Technology in San Pablo City has developed a LAN-based Enrollment System for Capellan Institute of Technology with the aim of enhancing the current enrollment process and implementing subject enrolment feature. The system is designed to not only to automate and modernize the enrollment procedure but also ensure the security and confidentiality of student records. It also adds a feature to enrol student in a specific subject. The developed system can potentially and positively impact both students and the staff of the Capellan Institute of Technology, including roles such as registrar, cashier, and director. By implementing this system, the traditional processes of data collection, student registration form, storage of student information, computation of statements of accounts, schedules of class list and teachers, and generation of matriculation and enrollment forms will be revolutionized, leading to more efficient and accurate enrollment management.

Keywords: Enrollment, LAN, Matriculation, Schedule, Registration

